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**UNIVERSITY OF PETROLEUM
AND ENERGY STUDIES**



End Semester Examination – December 2017

Program/course: B.Tech CSE + CCVT
Subject: Backup &DR
Code : CSIB 493
No. of page/s: 2

Semester : VII
Max. Marks : 100
Duration : 3 Hrs.

Section A

[4 x 5 =20 Marks]

Attempt all questions.

1. "BC is proactive strategy while DR is reactive. "Justify the statement.
2. What is meant by Private Interconnect or Heart Beat of a HA cluster?
3. Describe **RAID**. How it is helpful in availability and reliability.
4. What are the benefits of proper BCP implementation of a company?

Section B

[4 X 10 = 40 Marks]

Attempt all Questions

5. What is disaster in reference with the IT industry? Write down the requirements of the Drive the DR methods.
6. Explain and give full taxonomy of redundancy in DR. Explain Cascade 3 site topology. What is DR Drill write down its importance.
7. What is replication? Explain its role in DR. Differentiate between synchronous and asynchronous Replication.
8. What is BIA .Write down all the phases? Explain RTO and WRT with proper example.

Section C

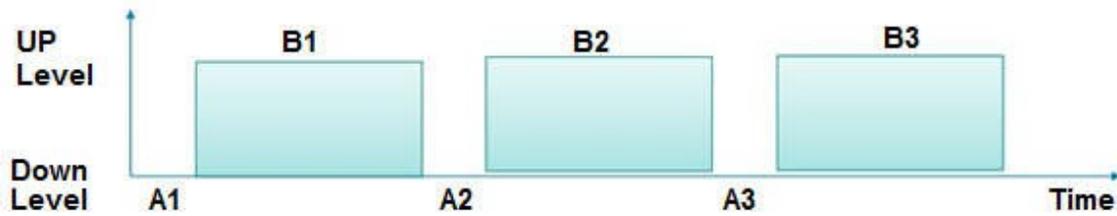
[2 x20=40 marks]

Attempt all questions.

9. Calculate the value of MTTR and MTBF .Also find availability of the system

a). UPTIME = 300hrs DOWNTIME = 15 hrs Number of failures =6.

b)



A1 = 15 min A2 = 20min A3 = 10 min (Value of time for the down level)

B1= 25 hrs. B2 = 10 hrs. B3 = 20 hrs. (Value of time for the UP level)

OR

Explain High availability with reference to the storage. Give the Storage architecture in Cloud Computing. Write down all the RAID levels with proper explanation. Difference between 1+0 and 0+1.

10. Write Short notes on the following

- Two Army Problems
- Service models of cloud computing.
- Data compression and Data Deduplication
- LTO and VTL
- Incremental and Progressive Incremental Backup